

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 03255271
PUBLICATION DATE : 14-11-91

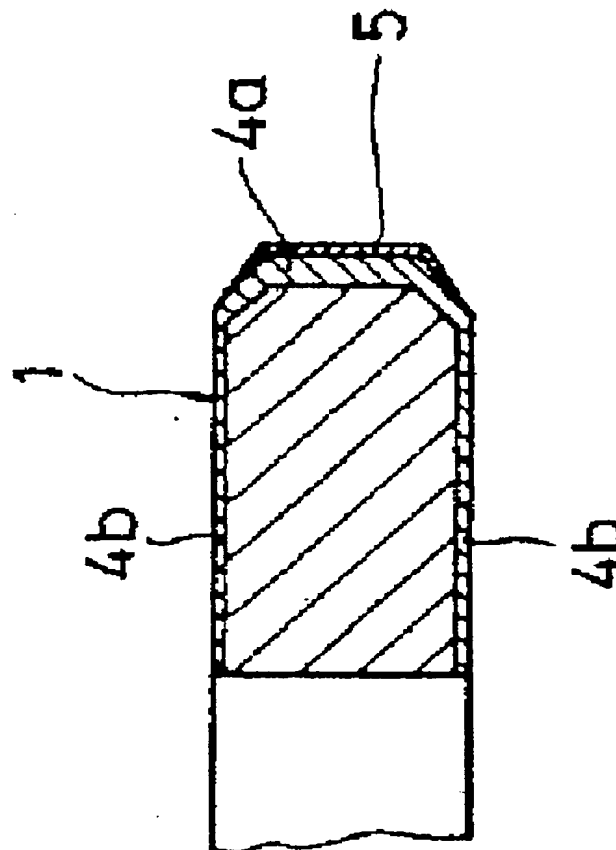
APPLICATION DATE : 06-03-90
APPLICATION NUMBER : 02054564

APPLICANT : TEIKOKU PISTON RING CO LTD;

INVENTOR : HARAYAMA AKIRA;

INT.CL. : F16J 9/26 C25D 5/14 C25D 7/00

TITLE : PISTON RING



ABSTRACT : **PURPOSE:** To improve heat resistance and initial conformability of a piston ring by applying heat resistance hard Cr plating including specific weight % of the total of S, C, and N to the outer circumferential sliding surface of the piston ring and additionally applying non-heat resistance hard Cr plating onto the heat resistance hard Cr plating of the outer circumferential sliding surface.

CONSTITUTION: On at least the outer circumferential sliding surface of a piston ring 1, heat resistance hard Cr plating including 1.0 to 3.0weight% of the total of S, C, and N 4a and 4b are applied. In addition, non-heat resistance hard Cr plating 5 is applied onto the heat resistance hard Cr plating on the outer circumferential sliding surface. This non-heat resistance hard Cr plating 5 must be of hard Cr applied in a Sargent bath or fluoride bath. In such way a piston ring excellent in initial conformability in the high temperature atmosphere, abrasion resistance, and seizure resistance can be obtained.

COPYRIGHT: (C)1991,JPO&Japio

BEST AVAILABLE COPY